

Title (en)

METHOD FOR IDENTIFICATION AND DETECTION OF MUTANT GENE USING INTERCALATOR

Title (de)

VERFAHREN ZUR IDENTIFIKATION UND ERKENNUNG MUTIERENDER GENE MIT EINEM INTERKALATOR

Title (fr)

PROCÉDÉ D'IDENTIFICATION ET DE DÉTECTION D'UN GÈNE MUTANT FAISANT APPEL À UN INTERCALANT

Publication

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Application

**EP 13764366 A 20130322**

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Abstract (en)

[origin: EP2840137A1] The present invention addresses the problem of improving separation performance in separating a hybrid of a mutant-type DNA and a probe or/and a hybrid of a wild-type type DNA and a probe, said hybrids being obtained by the LH method. The present invention relates to "a method for detection of mutant-type DNA or/and wild-type DNA which comprises the following steps: (1) a step in which at least one of a single-stranded DNA having a substituted nucleotide, a deficient nucleotide region, or an inserted nucleotide region (mutant-type DNA), or/and a wild-type single-stranded DNA corresponding to the mutant-type DNA (wild-type DNA) is contacted with a probe hybridizing with both single-stranded DNAs, to form a hybrid with the mutant-type DNA (mutant-type hybrid) or/and a hybrid with the wild-type DNA (wild-type hybrid) (in this regard however, at least one of the obtained mutant-type hybrid and wild-type hybrid has a loop structure), (2) a step in which the obtained mutant-type hybrid or/and wild-type hybrid is contacted with an intercalator, and (3) a step in which the presence or absence of the mutant-type DNA or/and the wild-type DNA is detected by separating the conjugate of mutant-type hybrid and intercalator or/and the conjugate of wild-type hybrid and intercalator".

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